

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 73967

REGION 7 25 FUNSTON ROAD KANSAS CITY, KANSAS 66115

1.5 5-18-84

May 18, 1984

MEMORANDUM

SUBJECT:

Preliminary Assessment, Union Wire Rope (Division of ARMCO),

Kansas City, Missouri

FROM:

Paul E. Doherty, Acting Chief

Site Investigation Section, EP&R/ENSV

T0:

Robert L. Morby

Chief, WMBR/ARWM

,THRU:

William J. Keffer

Chief, EP&R/EN&V

John C. Wick und

Director, ENSV

David A. Wagoner Director, ARWM

Attached for your review is the preliminary assessment for the above referenced site. Company officials declined to provide information on past waste handling practices and formal written inquiry by EPA is recommended. Attachment

S00074350 SUPERFUND RECORDS

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Preliminary Assessment of the Union Wire Rope Division of ARMCO, Inc. Kansas City, Missouri

> TDD R-07-8403-20 EPA ID# MOD01686740

May 14, 1984

Submitted to: Paul E. Doherty, ARPO Prepared by: William Kwoka Submitted to:

Region VII REM/FIT

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FIGURE 4	.1.																											. 4 – 2

SECTION 1: INTRODUCTION

On March 27, 1984 the United States Environmental Protection Agency (EPA) tasked Ecology and Environment, Incorporated (E&E) to do a preliminary assessment of the Union Wire Rope (UWR) Division of ARMCO, Inc. The work was authorized under technical direction document (TDD) number R07-8403-20. The assigned EPA identification number for the UWR site is MOD001686740.

SECTION 2: HISTORY

The Union Wire Rope Division of ARMCO, Inc. filed a notification of hazardous waste activity with the EPA on August 18, 1980 as required under the Comprehensive Environmental Response and Liability Act (CERCLA). The UWR facility listed two hazardous wastes:

F017 Paint Wastes (now delisted)

K062 Spent Pickle Liquor

An annual hazardous waste report filed on January 10, 1983 listed another waste:

FOOI Spent Halogenated Solvents

On July 1, 1982 the EPA inspected the UWR facility under the Resource Conservation and Recovery Act (RCRA) and noted that some waste 1,1,1-trichloroethane (1,1,1-TCE) was being poured down a drain in the die cleaning room. The remainder was stored in a 700 gallon tank. The RCRA inspectors were told that the drain probably emptied into the Blue River and that the stored 1,1,1-TCE was periodically burned in a boiler owned by ARMCO, Inc. Under a compliance order by the EPA, the facility stopped burning the 1,1,1-TCE and replumbed the drain to collect the spent solvent. A fine was also paid. The spent solvent is now collected and sent to approved facilities for recycling/disposal (Ref. RCRA file).

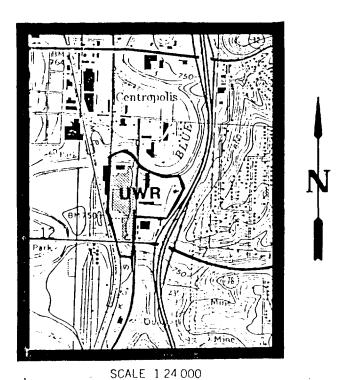
A reinspection performed in August of 1982 found a tank of 1,1,1-TCE with an open valve. The EPA requested that the contamination be cleaned up.

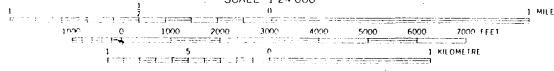
Union Wire Rope removed the contaminated soil and disposed of it as hazardous waste. The remaining soil was analyzed and found to contain less than 16 parts per billion of 1,1,1-TCE (Ref. RCRA file).

SECTION 3: LOCATION

The UWR facility is located at 2100 Manchester Trafficway, Kansas City, Missouri 64126. Its approximate legal description is the SW 1/4 and NW 1/4 of NW 1/4 of S7, T7N, R32W, and its coordinates are latitude $39^{\circ}07'30.0''$ N, longitude $94^{\circ}29'32.0''$ W.

The facility lies adjacent to the Blue River. The UWR property meets the Blue River all along its northern edge (see Figure 3.1).





CONTOUR INTERVAL 10 FEFT NATIONAL GEODETIC VERTICAL DATUM OF 1929

Legend

Figure 3.1

Union Wire Rope Site (UWR)
USGS Topographic Map
Independence Quadrangle
Independence, MO
N3900-W9422.5/7.5
1964, Photorevised 1970 and 1975

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SECTION 4: PATHWAYS

Soil contamination has been documented and surface water contamination is alleged (Ref. RCRA file). A drain in the die cleaning room was used to dispose of solvents prior to the replumbing of the drain in 1982. It is alleged that the drain connected to a storm sewer which emptied into the Blue River (Ref. RCRA files). The Blue River flows north to the Missouri River which is used for drinking water.

On-site monitoring wells were installed near the tank where spent TCE is stored. The ARMCO Steel facility has an industrial water intake at (357.6 miles Mo. River) (Ref. TOPO). If other on-site spillage or disposal occurred, the contaminants would be expected to percolate through the soil into the groundwater and the surface water. Since groundwater is found approximately 15 feet below the surface it is very likely to become contaminated. The net precipitation is a negative 3.6 inches.

Penetration of the soil is expected to be relatively slow due to its high clay content. The soil is composed of approximately 14 feet of lean clay overlaying about 8 feet of fat clay overlaying lean clay (Ref COE). The clayey soil meets shale bedrock at approximately 65 feet below the surface. The soils are relatively impermeable to water (permeability about 10^{-6} cm/sec) (Ref. Meth.) but the permeability to chlorinated organics is untested.

Soil erosion was observed by the author along the northern edge of the UWR facility where it joins the Blue River. Since the Blue River often floods during heavy rains, it can be assumed that the soil has entered the river (see Figure 4.1).



Union Wire Rope Site

Figure 4.1

Facing West From Manchester Twy 5-7-84 1234 Hours Photographer W.Kwoka

SECTION 5: RECEPTORS

The area surrounding the UWR facility is a mixture of industrial, residential and recreational areas. The west side of the Blue River is a mixture of industrial, residential and park areas while the east side of the river is industrial.

Twenty-six industrial buildings lie within 1000 feet of the facility. The industries include the Empire Iron and Metal Company, the E.K. Cambell Company, the Libby Welding Company, the Kerr-McGee Wood Preserving Plant and the W.S. Dickey Clay Manufacturing Company. The total number of off site employees within 1,000 feet of the UWR facility is estimated to be 130 (authors estimate based on 5 persons/bldg) in the area of concern if wastes were disposed of on-site. The UWR facility is extensive and probably employs several hundred people.

The area adjacent to the Blue River is part of the Kansas City park system and is used for recreational purposes. The number of people which use the river for recreation is unknown.

The Blue River empties into the Missouri River which is an indirect source of drinking water for the city of Independence, Missouri. The City of Independence gets part of its water from the city of Kansas City and the rest from wells which are located about seven miles downstream in the Missouri River alluvium (Ref. MWC).

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SECTION 6: WASTE CHARACTERISTICS

The wastes which are known to have been handled on-site are paint wastes, dichlormethane, l,l,l-trichloroethane and steel pickle liquor. The paint wastes are almost insoluble in water, but contain solvent(s) used as paint strippers and possibly heavy metals. No radioactive, infectious, carcinogenic, teratogenic or mutagenic materials were mentioned in the RCRA file.

The paint solvent which was reportedly used is dichloromethane. Dichloromethane is a volatile, non-flammable moderately toxic (Sax) chlorinated hydrocarbon having a solubility of 20,000 parts per million in water (Ref. Sax). It is moderately persistent in the environment, non-corrosive, and non-bioaccumulative (Ref. WREF).

Lead components were commonly used in paint formulations. It is unknown if lead or other heavy metals are present in the UWR paint wastes. Paints also tend to degrade into phenolic compounds which readily leach into the environment.

l,l,l-trichloroethane is a volatile, non-flammable, liquid halogenated solvent which is moderately toxic and nominally insoluble in water (Ref. Sax). It is also moderately persistent in the environment (Ref. JRB). Environmental concentrations of l,l,l-TCE are not subject to dangerous reactivity, but the concentrated liquid can react violently with a number of chemicals which are not believed to be on site. Water is reported to hydrolyze l,l,l-TCE to one-half of its concentration every six months (Ref. WREF). Steel pickle liquor (presumably sulfuric acid) is contaminated with iron and other metals that it has contacted. Crystaline ferrous sulfate is filtered from the liquor and sold to the Calcium Carbonate Co. in Saint Louis and the acid is recycled (Ref. RCRA file).

Steel pickle liquor wash is an acidic corrosive waste resulting from the pickling operation. The waste is treated in a pretreatment neutralization facility and discharged to a publicly owned treatment works (Ref. RCRA file).

SECTION 7: WASTE MANAGEMENT PRACTICES

The wastes which were listed in the RCRA file include paint wastes, pickle liquor, and chlorinated solvents. An unstated quantity of paint wastes were produced at the site. The waste was contaminated with paint strippers (dichloromethane). The disposal method (prior to 1980) for paint wastes was unstated in the RCRA file. After a RCRA inspection in 1982, the UWR facility determined that the paint wastes should be considered to be hazardous and started sending the wastes to approved hazardous waste sites (Ref. RCRA file).

The pickle liquor is recycled and is not disposed of except as neutralized pickle liquor wash. Ferrous sulfate builds up in the pickle liquor. When crystals of ferrous sulfate form, they are filtered from the liquor, collected and sold.

The chlorinated solvent, 1,1,1-trichloroethane was reportedly used at a rate of 100-150 gallons per month (Ref. RCRA file). Of that amount an estimated 80 gallons per month were poured into a drain and the remainder was stored in a 700 gallon tank for later burning in a boiler. The drain reportedly emptied into the Blue River. A small spill of

1,1,1-trichloroethane occurred near the waste storage tank in August of 1982. The contaminated soil was removed and monitoring wells were installed in the vicinity of the tank from which the spill occurred.

The facility appears to be easily accessible both from the river and from Manchester Trafficway. It is unknown if children play in and/or around the facility.

SECTION 8: RECOMMENDATIONS AND CONCLUSIONS

The information found in the EPA RCRA file indicates that some recent hazardous waste management problems have occurred and been rectified. The RCRA information shows that problems detected in 1982 have been corrected. The federal, state, and local files contain insufficient information to determine which hazardous wastes have been handled on-site, their quantities and how they were managed. Since the UWR contact, Mr. Leland Scott, would not release information without a formal written request, a RCRA Section 3007 letter should be sent by the EPA. The letter should request 1) a list of the types and quantities of wastes generated, 2) information about spills or on-site disposal, and 3) if no on-site disposal occurred, where and how were the wastes disposed.

SECTION 9: REFERENCES

COE: Boring number D-26 done by the Corps of Engineers, on 5-15-75, along the Blue River Channel

Meth: "The Methodology for Rating the Hazard Potential of Waste Disposal Sites", Draft Final Report, Oct. 31, 1980 by JRB Associates, Inc., 8400 Westpark Drive, McLean, Virginia 22102

MWC: Missouri Water Company Employee, Mr. Lukrofka

RCRA file: This refers to the U.S. EPA RCRA file which is kept at the U.S. EPA Regional Office.

Sax: "Dangerous Properties of Industrial Materials", fifth edition, 1979, Van Nostrand Reinhold Company, New York, N.Y.

Topo: Topographic Map, Independence Quadrangle, Independence, MO., N3900-W9422.5/7.5 1964 Photorevised 1970 and 1975.

SEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1-SITE INFORMATION AND ASSESSMENT

1	IFICATION
UI STATE	02 SITE NUMBER
MO	MOD01686740

PART 1	- SITE INFORMA	ION A	ND ASSESSMEN	IT L FIU	1 10001000740
II. SITE NAME AND LOCATION					
01 SITE NAME (Legal common, or describing name of site)		02 STREE	1. ROUTE NO , OR SE	ECIFIC LOCATION IDI NITIFIER	
Union Wire Rope Div. of Armco		2100	Manchester	Trafficway	
03 CITY			05 ZIP CODE 06	-	OF COUNTY OF CONG
Kansas City		МО	64126 J	ackson	COD€ DIST
	GITUDE	 	11		
	9 3 2 0				
10 DIRECTIONS TO SITE (Starting from hearest public road)		1			
III. RESPONSIBLE PARTIES				···	
01 OWNER (# known)		02 STREE	T thus mess musting resin	•uim _J	
Armco:Incorporated		7000	Roberts St	reet	
03 CITY	·		05 ZIP CODE	06 TELEPHONE NUMBER	
Kansas City		мо	64125	()	
EXOPERATOR MEMORINAMENT AND CONTACT		OBSTREE	T (Business nummp resid	PAINE.	J
Leland Scott		7000	Dahanta Ct	waat	
OP CITY		1D STATE	Roberts St	12 TELEPHONE NUMBER	
•		МО	64125	1 242 5851	1
Kansas City		MO	04123	1, 545, 2021	<u> </u>
MA PRIVATE C B FEDERAL	· · · · · · · · · · · · · · · · · · ·		_ D C STATE	DD COUNTY DE. M	UNICIPAL
DIF OTHER			_ D G UNKNOV	A/A/I	
	7			***	
14 OWNER: OPERATOR NOTIFICATION ON FILE (Creck at the weigh	K a micontagni	ED 10 8 5 3 1	F FITE ALLEY	D. 15 D. 15 D. 15 D. 16	18, 80
LA RCRA 3001 DATE RECEIVED	TO B UNCONTROLL		- SITE ICERCIA 1032)	DATE RECEIVED	DAY YEAR
IV. CHARACTERIZATION OF POTENTIAL HAZARD			×===		
TO ON SITE INSPECTION AD YES DATE 08 / 82 ONO NO DEL	rkaz maradniyî ÎPA — DIBIEPA	CONTRA	CTOR EDC	STATE E D OTHER	CONTRACTOR
AD YES DATE WONTH DAY YEAR DEL	OCAL HEALTH OFFI	CIAL [FOTHER		
	RACTOR NAME(S)			(Soverly)	
02 SITE STATUS (Check one)	03 YEARS OF OPERA	TION			
A ACTIVE BEINACTIVE DC UNKNOWN				DUNKNOW	/N
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN,		Giretaite of th	AN ENDINE YEA	, н	
Sludge from waste water neutral		1	Methylene C	hloride	
Ferrous Sulfate				hloroethane	
Sulfuric Acid			•		•
DS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/	OR POPULATION				
Available information is from 1		format	tion about	the tunes auan	tities of
hazardous wastes and the manage					
requested by the EPA.	menc pracer	ces hi	101 (0 130	a, needs to be	101 maily
requested by the ErA.					
V. PRIORITY ASSESSMENT		·			
O1 PRIORITY FOR INSPECTION (Check one I high or medium a checked ac		ution and Part		us Condiens and incidental	
DIA HIGH DIS B. MEDIUM (Introction required promotily) (Introction required)	XD C. LQW (httpsect on time a	radatika Basas	D D NONE (No further a	rien meened complete current dispos	Hon form)
VI. INFORMATION AVAILABLE FROM					
D1 CONTACT	02 OF (Apency Digenue)	(m)			D3 TELEPHONE NUMBER
David Doyle	EPA			•	(374)6864
D4 PERSON RESPONSIBLE FOR ASSESSMENT	DS AGENCY	OB OPGA	ology and	OT TELEPHONE NUMBER	OB DATE
William Kwoka	1		onment	(913) 432-9961	5 114184 MCHITH DAY YEAR
miillalli NWUKa	1	FILL IL	JIMEN C	313 436-3301	MCHITH DAY YEAR

SEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

101 STATE 02 SITE NUMBER

MO MODO1686740

VALI	IA		PART 2 - WAST	E INFORMATION	I	MOLMODO	11686740
II. WASTE S	TATES, QUANTITIES, A	ND CHARACTER	IISTIC S				
	STATES (Check all that activity)	02 WASTE QUANT	STIZ TA YTH	03 WASTE CHARACT	ERISTICS ICHOIL BEING	i anniy)	
L) A SOUID L) B POWDI L) C. SLUDG		TONS	NS UNKNOWN L' B CORROSIVE		DSIVE LIF.HVFE NCTIVE LIF.HVFE	N E SOLUBLE À I HIGHLY VOLATILE LI F.INFECTIOUS LI J EXPLOSIVE LI K REACTIVE LI HIGHLY VOLATILE LI LI HIGHLY VOLATILE LI HIGHLY VOLATILE LI LI HIGHLY VOLATILE	
LI D OTHER	unknown (Seecety)	CUBIC YARDS NO OF DRUMS		X	TENT IS IT TO THE	LI M NOT A	
III. WASTE 1		1		<u> </u>			
CATEGORY	SUBSTANCE	NAME .	DI GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE		Unknown		Paint Sluc	dae	
OLW	OILY WASTE		J OHKHOWII		Unknown	age	
SOL	SOLVENTS		Unknown			ed Solvents	
PSD	PESTICIDES	,			Unknown		
occ	OTHER ORGANIC C	HEMICALS	1	1	Unknown		
ЮС	INORGANIC CHEMK		1		Unknown		
ACD	ACIDS	•			Unknown		
BAS	BASES			 	Unknown		
MES	HEAVY METALS		1		Unknown		
IV. HAZARD	OUS SUBSTANCES (See /	Uppenda for most frequer	illy caed CAS Aumbers)	• ,			
01 CATEGORY	02 SUBSTANCE	NAME	03 CAS NUMBER	04 STORAGE/DISI	POSAL METHOD	D5 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	1,1,1-Trichlore	pethane	71-55-6				
SOL		e Chloride	75-09-2				
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	DI FEEDSTOO		02 CAS NUMBER	CATEGORY	D1 FEEDST	OCK NAME :	
CATEGORY			 	FDS	01766031	OCK NAME	07 CAS NUMBER
FDS	Trichloroet		71-55-6 75-09-2	[
FDS	Methylene C	nloride	1/5-09-2	FDS			
FDS				FDS			
FDS			<u> </u>	FDS			
VI. SOURCE	S OF INFORMATION IC.	weeks references, a g .	state Bes, sample analysis,	reports)			
						•	

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION				
OI STATE	MODO 1686740			

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS II. HAZARDOUS CONDITIONS AND INCIDENTS DI IX A GROUNDWATER CONTAMINATION 02 [] OBSERVED (DATE: _ [] POTENTIAL D ALLEGED **D4 NARRATIVE DESCRIPTION** D3 POPULATION POTENTIALLY AFFECTED. Unknown potential: Groundwater is approximately 15 below the soil surface. If burial or unmitigated spills occurred in the past, groundwater contamination is likely. 01 Ø B SURFACE WATER CONTAMINATION
D3 POPULATION POTENTIALLY AFFECTED 02 D OBSERVED (DATE: ____ ALLEGED [] POTENTIAL **04 NARRATIVE DESCRIPTION** EPA letter to Mr. Jerry K. Fuller, Union Wire Rope Div. of Armco Inc. Dated by stamp August 3, 1982. 1,1,1- Trichloroethane (approximately 80 gal./month) was being poured down a drain believed to empty into the Blue River. 02 C OBSERVED (DATE: [] POTENTIAL 03 POPULATION POTENTIALLY AFFECTED **04 NARRATIVE DESCRIPTION** Unknown DI DID FIRE EXPLOSIVE CONDITIONS 02 - OBSERVED (DATE □ POTENTIAL □ ALLEGED **04 NARRATIVE DESCRIPTION** 03 POPULATION POTENTIALLY AFFECTED Unknown OLITE DIRECT CONTACT 02 L. OBSERVED (DATE U POTENTIAL D3 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION Unknown. The public has access to the facility from the Blue River and from Manchester Trafficway. DI DE CONTAMINATION OF SOIL 21 [] POTENTIAL D ALLEGED 03 AREA POTENTIALLY AFFECTED **04 NARRATIVE DESCRIPTION** RCRA inspection. The affected area was cleaned up and analyzed for residual 1,1,1-TCE. Maximum TCE level found was 15.9 ppm.(Mg ./Kg). Information from samples taken July 11, 1983. D1 DG DRINKING WATER CONTAMINATION 02 D OBSERVED IDATE. (i) POTENTIAL F) ALLEGED 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED __ Unknown, but highly unlikely because the nearest water intake is about seven miles downstream. O1 D H. WORKER EXPOSURE/INJURY 02 [] OBSERVED (DATE: _ D POTENTIAL □ ALLEGED **D4 NARRATIVE DESCRIPTION** 03 WORKERS POTENTIALLY AFFECTED: _____ Unknown D1 D1 POPULATION EXPOSURE/INJURY 02 D OBSERVED (DATE □ POTENTIAL D ALLEGED D3 POPULATION POTENTIALLY AFFECTED. **04 NARRATIVE DESCRIPTION** Unknown

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION				
	OT STATE	02 STE NUMBER MODO1 686740		

PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDENT	rs Lino lino	001000740
II. HAZARDOUS CONDITIONS AND INCIDENTS (CONTOURS)			
01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	D POTENTIAL	C ALLEGED
Unknown			
01 D K DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (INClude name)(3) (14-4-41)	02 D OBSERVED (DATE:)	[] POTENTIAL	□ ALLEGED
Unknown			-
01 D L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE)	[] POTENTIAL	[] ALLEGED
NO			
01 DM UNSTABLE CONTAINMENT OF WASTES	02 D OBSERVED (DATE:)	D POTENTIAL	D ALLEGED
(Scietiumoli standing bouch leating drums) 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
Unknown			
01 [J.N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 () OBSERVED (DATE:)	() POTENTIAL	D ALLEGED
None Known			
01 X: O CONTAMINATION OF SEWERS STORM DRAINS WWTPS 04 NARRATIVE DESCRIPTION	02 X OBSERVED (DATE 08/18/82	LI POTENTIAL	D ALLEGED
Workers were observed pouring 1,1,1 with storm drains that emptied into	-TCE into a drain. The drag the Blue River.	in allegedly	connected
01 X P ILLEGAL/UNAUTHORIZED DUMPING D4 NARRATIVE DESCRIPTION	02 % OBSERVED (DATE: _7/84)	D POTENTIAL	□ ALLEGED
Workers were observed using the dra	in which emptied into the Bl	lue River.	
The RCRA files were insufficient to have occurred. It is possible that	determine whether their spi		
III. TOTAL POPULATION POTENTIALLY AFFECTED:			_
IV. COMMENTS			1
Although the city, state and feder than that which was noted, they do not for information concerning the waste ty should therefore be made.	cover the time before 1900.	, A TOTHAT I	equese
V. SOURCES OF INFORMATION ICAA ROBERC TRI POCAR, B. C. AIR'S POLITICAL AND	ample analysis reports)		
EPA Files,city and state presonnel			

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